thrust toward an air intake, and outward from a central section, the blade which is set at the angle pushing the air in the radial direction of rotation, which is toward the outer periphery of the rotor fan, and the outer step that reaches beyond a raised central portion of the heat plate reaching down toward the object being cooled, in such a way that the outer step of the arced blades of the rotor fan is near to stacked heat radiation fins, the rotor fan with the two-step multi-blade form being shaped like an inverted saucer;

by having multiple thin metal heat radiation fins with excellent thermal conductivity arranged in parallel at fixed intervals above the heat plate outside the rotor fan as cooling heat-radiation fins;

and by combining the function of cooling heat sink with the heat radiation fins that conduct the heat absorbed from the heat plate and radiate it away by the action of the air moved by the rotor fan.

3. (Amended) A very thin fan motor with heat sink attached at described in claim 1 or 2 above, in which multiple heat radiation fins are stacked with a given interval between them and are connected by a heat conducting material or fittings, and in at least two diagonally opposed corners of the multiple heat radiation fins, a heat sink unit and a stator unit are fixed together in a simple assembly process.

7. (Amended) A very thin fan motor with heat sink attached as described in one of claims 4 through 5 above, wherein the material with excellent thermal conductivity is precious metal or copper.